NLS-BS8050-2C

2D CMOS Bluetooth Wireless Pocket Scanner

Brief Overview:

Designed primarily for P.O.S. retail environments, the Newland BS8050-2C is a wireless pocket Bluetooth barcode scanner / data collector that allows you to scan various barcoded items.

Its built-in EM3070 Newland 2D CMOS engine allows you to reliably read virtually all 1D/2D barcodes on various shapes and is a great space-saver for busy or limited workspaces. It also supports Apple iOS, Android, and Windows devices through Bluetooth HID or SPP communication. Enabling a dedicated fast and reliable barcode reader to be used with mobile phone and tablet applications.

A small but powerful portable scanner with broad data collection and transferring possibilities. Additionally to retail applications the BS8050-2C is ideal for event management and data collection for e.g. marketing purposes and other environments where portability and flexibility is called for.

Features:

- **Portability**
  With its small form factor 100 x 43 x 24.5mm (L x W x H), the BS8050-2C is easy to carry and store.

- **Superior decoding performance**
  Delivers speedy and accurate scanning performance and supports all mainstream 1D/2D barcode symbologies.

- **Connect easily to your smartphone or tablet**
  The BS8050-2C connects to your smartphone or tablet via HID or SPP profile.

- **Ease of data storage**
  Never lose your scanned data; the BS8050-2C has internal memory storage of 1MB, so that even if you're outside of BT range, data will be stored on the device's internal memory until removed by clean memory command.

Specifications

Performance

Image Sensor / Illumination		CMOS / Red LED (625 ± 10nm)
Scan Rate		Up to 60 frames p/s
Symbologies	**1D**	Code 128, EAN-13, EAN-8, Code39, Code 11, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN, ISSN, Code93, Industrial 2 of 5, Matrix 2 of 5, Plessey, UCC/EAN-128, GS1 Databar
	2D	PDF417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code
Reading Precision		≥ 5mil (testing code: Code 39)
		≥10mil (testing code:Data Matrix)
Depth of Field	**Code 39**	10mil 35~205mm
	EAN-13	13mil 50~260mm
	Data Matrix	10mil 50~160mm
		15mil 50~225mm
	PDF417	10mil 50~215mm
		15mil 60~285mm
	QR Code	10mil 55~140mm
		15mil 50~210mm
Symbol Contrast		≥ 25%
Scan Angle**		Roll: 360°; Pitch: ±55°; Skew: ±55°
Field of View		Horizontal 36°; Vertical 23°
Memory Capacity		1MB memory inside

Mechanical/Electrical

Transmission range	BT Class 1 (100m, line of sight)
Profiles	HID & SPP profile 2.4GHz Wireless
Input Voltage	5V/DC / Mini USB
Rechargeable battery	3.7V 900mAh Li-Ion battery
Dimensions	100 x 43 x 24.5mm (L x W x H)
Weight	65 ± 0.1 g without wrist strap, 70 ± 0.1 g with wrist strap.

Environmental

Operating Temperature	0℃ to +50℃
Humidity	5% to 95% (non-condensing)

Certifications

FCC Part15 Class B, CE EMC Class B

Accessories

Cable	**USB Cable**	Used to charge the BS8050 series built-in battery.
Strap		Strap to put around wrist, for ease of handling the device.

**Test conditions:

Code 39; 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm; T=23℃; Illumination=200 lux